

Figure 1

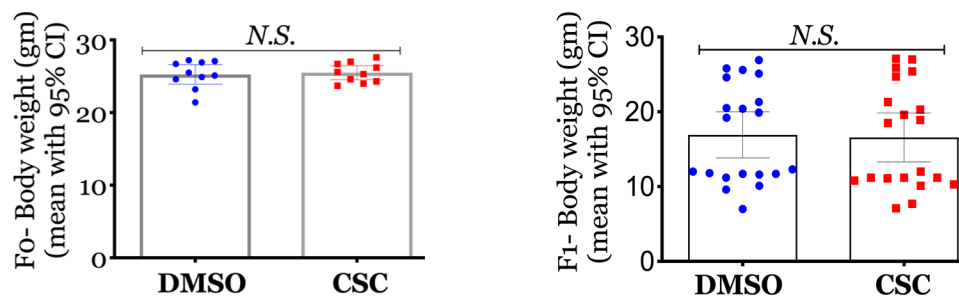
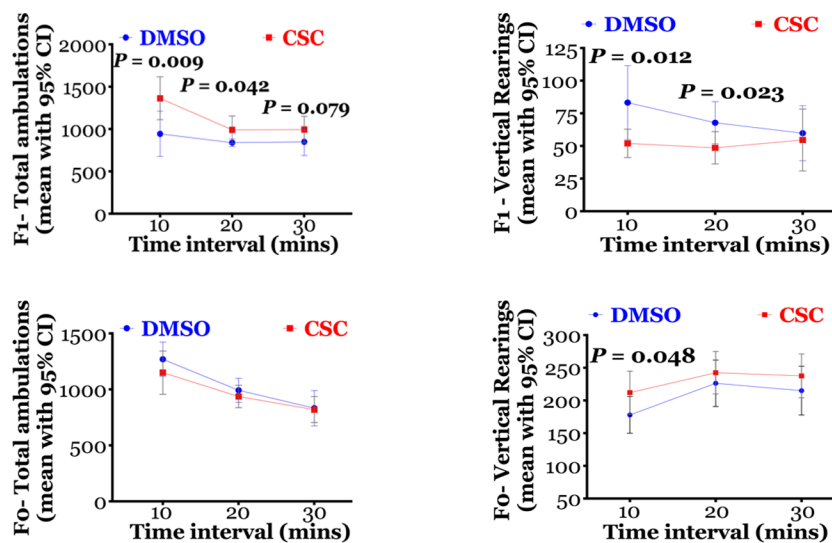


Figure 2

A



B

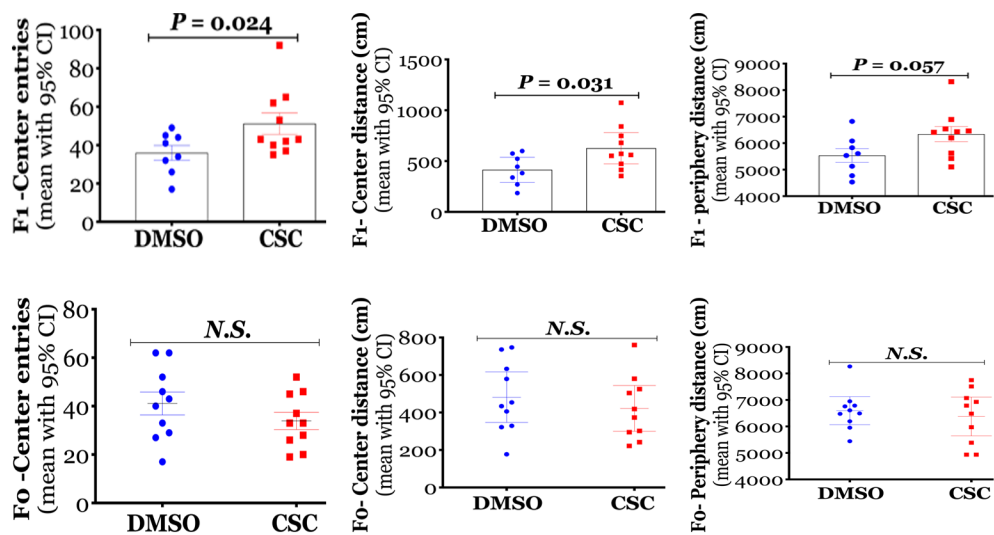


Figure 3

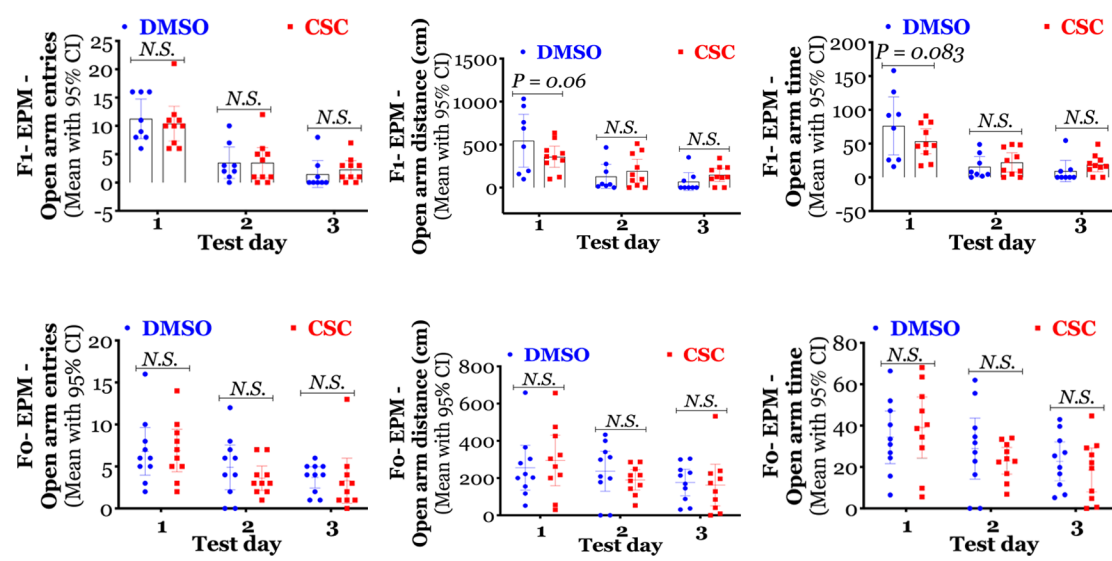


Figure 4

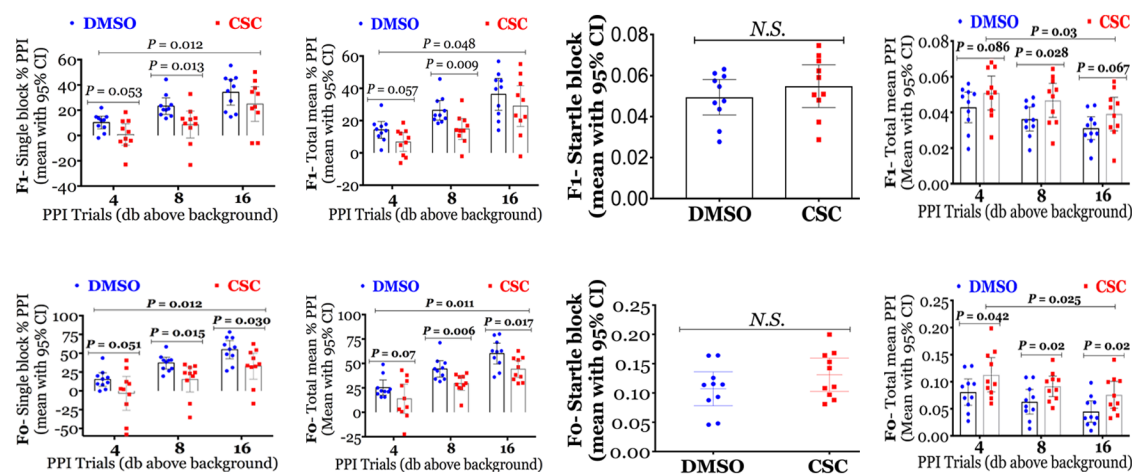


Figure 5

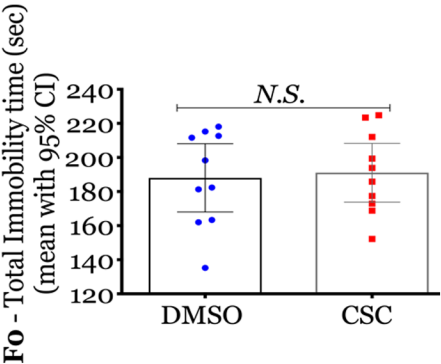
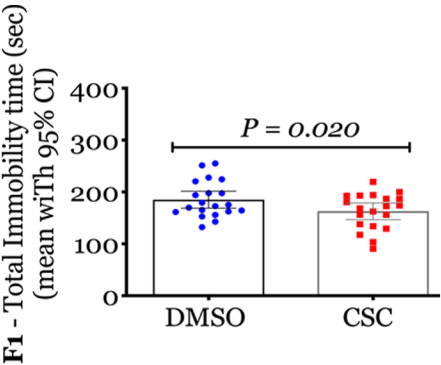


Figure 6

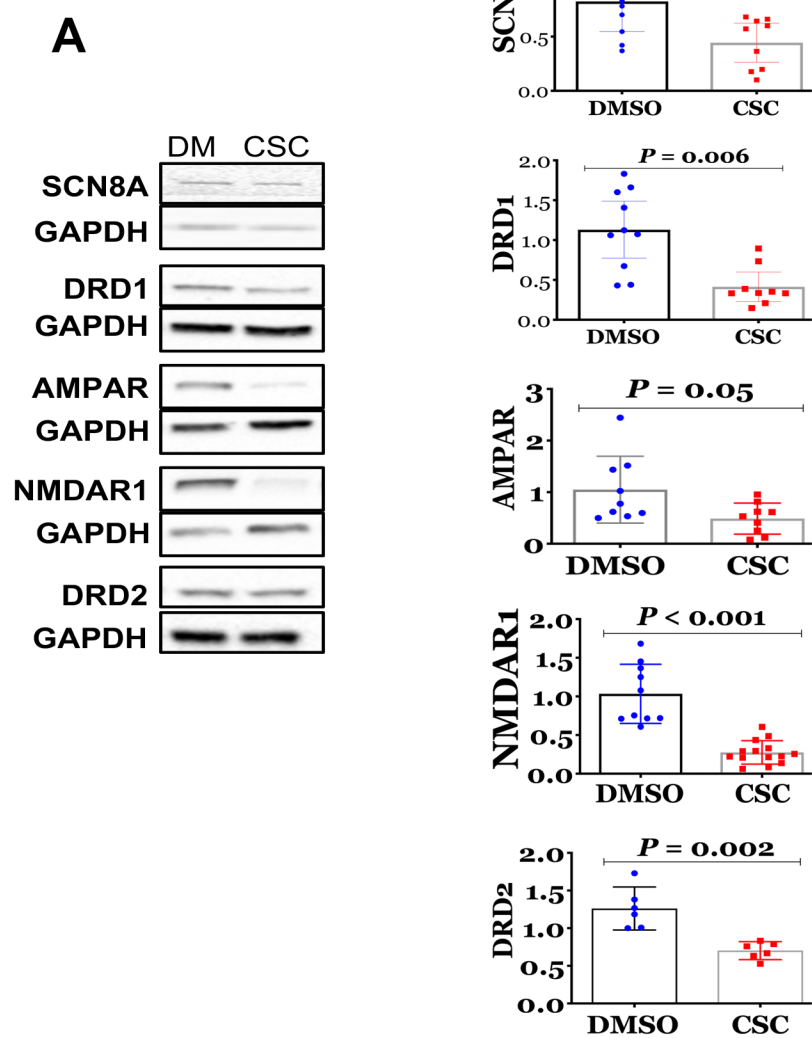


Figure 7

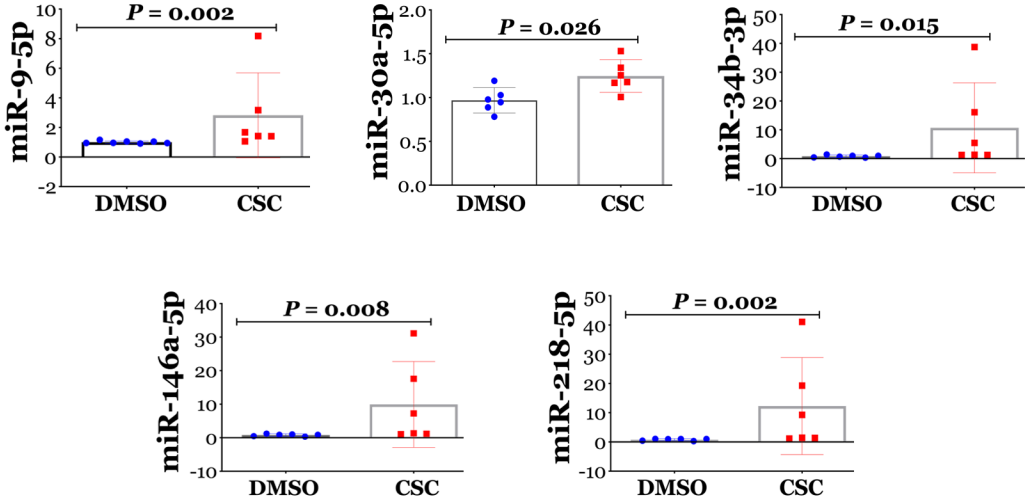


Table 1. Selected mRNA targets and putative targeting miRNAs in F1 fetal brain.

Selected target mRNAs	Mean mRNA fold difference between CSC-exposed and control F1 fetal brain (<i>P</i> values)	Targeting miRNAs	Mean miRNA fold difference between CSC- exposed and control F1 fetal brain (<i>P</i> values)
<i>Drd2</i>	0.52 (0.008)	miR-9-5p	2.82 (0.002)
<i>Scn8a</i>	0.65 (0.001)	miR-30a-5p	1.25 (0.026)
<i>Drd1</i>	0.54 (0.001)		
<i>Gria2</i>	0.51 (0.051)		
<i>Grin1</i>	0.54 (N.S.)		
<i>Gria2</i>	0.51 (0.051)	miR-218-5p	12.26 (0.002)
<i>Drd2</i>	0.52 (0.008)		

Table 2. Putative miRNA levels in CSC exposed Fo serum.

Targeting miRNAs	Mean miRNA fold difference between CSC- exposed and control Fo serum after 40 days of treatment (<i>P</i> values)
miR-34b-3p	17.412 (0.057)
miR-146a-5p	66.78 (0.0179)

Figure 8

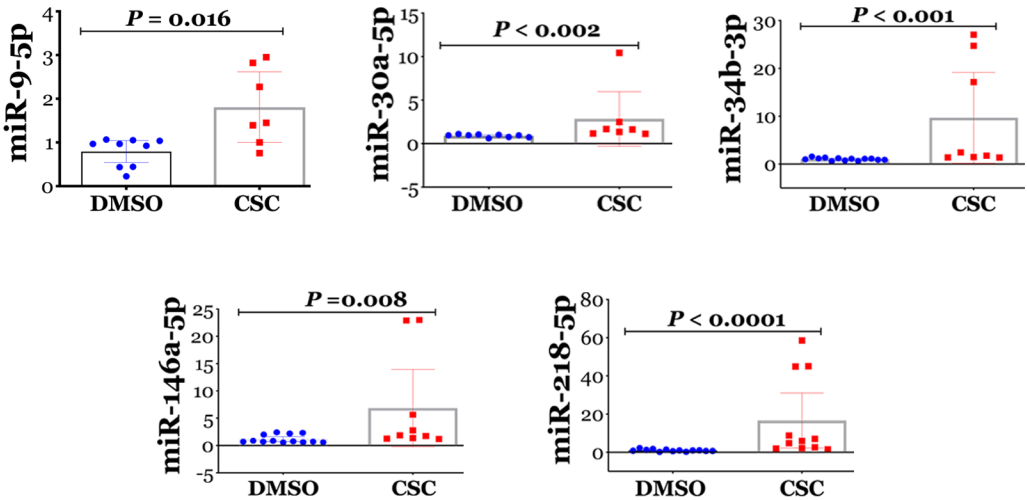


Fig 9

Mature sperm with miRNAs

**Spermatogenesis /
sperm maturation**

miRNAs

**Sperm miRNA delivery
to oocyte**

CSC / CS (nicotine)

**Altered gene expression
in embryos**

Adverse behavioral outcomes in progeny

